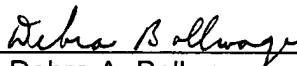




CERTIFICATION

I, Debra A. Bollwage, Assistant Secretary of Merck & Co., Inc., a Corporation duly organized and existing under the laws of the State of New Jersey, do hereby certify that the attached, presently in full force and effect, is a true and correct copy of General Corporate Resolution #5, Patent Matters, as amended by Unanimous Written Consent of the Board of Directors of said Corporation on April 24, 2001.

IN WITNESS WHEREOF, I have hereunto subscribed my signature and affixed the seal of the Corporation this 27<sup>th</sup> day of April, 2001.

  
\_\_\_\_\_  
Debra A. Bollwage  
Assistant Secretary

(SEAL)



**General Corporate Resolution #5**

**PATENT MATTERS**

RESOLVED, that any of the following:

Raymond V. Gilmartin-Chairman of the Board, President and Chief Executive Officer  
Kenneth C. Frazier-Senior Vice President and General Counsel  
Joseph F. DiPrima-Vice President and Assistant General Counsel  
Paul D. Matukaitis-Vice President and Assistant General Counsel  
Edward W. Murray-Counsel, Litigation  
Charles M. Caruso-Counsel, International  
W. Gwyn Cole-Counsel-European Patents  
Mark R. Daniel-Counsel, Patents  
David L. Rose-Counsel, Patents  
Jack L. Tribble-Counsel, Patents  
Melvin Winokur-Counsel, Patents  
Richard C. Billups-Assistant Counsel, Patent Practices  
Donna L. Margiotto-Administrator, Patents

are authorized to execute and to revoke on behalf of Merck & Co., Inc. and its affiliates (including subsidiaries) the following documents relating to patent matters:

Powers of attorney as fully in law as may be necessary and proper in connection with the acquisition, registration, maintenance and enforcement of patents and applications for patents, including powers of attorney relating to the prosecution or defense of patent rights before courts of law or other governmental tribunals, agencies or departments; affidavits and declarations; and any other documents which are necessary and proper for the acquisition, registration, maintenance, litigation and protection of patents.



**PATENT COOPERATION TREATY**  
General Appointment of Agent or Common Representative

The undersigned applicant(s) hereby appoints:

|                         |                      |
|-------------------------|----------------------|
| Sylvia A. Ayler         | Shu Muk Lee          |
| Richard C. Billups      | James L. McGinnis    |
| Valerie J. Camara       | David A. Muthard     |
| Anna L. Cocuzzo         | Curtis C. Panzer     |
| Joseph A. Coppola       | Richard S. Parr      |
| Mark R. Daniel          | Dianne Pecoraro      |
| Joseph F. DiPrima       | Carol S. Quagliato   |
| Philippe L. Durette     | David L. Rose        |
| Catherine D. Fitch      | Anthony D. Sabatelli |
| J. Antonio Garcia-Rivas | J. Eric Thies        |
| Joanne M. Giesser       | Jack L. Tribble      |
| J. Mark Hand            | Nicole M. Wallinger  |
| Sheldon O. Heber        | Kenneth R. Walton    |
| James M. Hunter, Jr.    | Melvin Winokur       |
| Soonhee Jang            | Mollie M. Yang       |
| Vineet Kohli            | Michael D. Yablonsky |
|                         | Raynard Yuro         |

All of Merck & Co., Inc., 126 East Lincoln Avenue, Rahway, New Jersey 07065

as agents (attorneys)

to act on his behalf before the competent International Authorities in connection with any and all International Applications filed by him and of which he is the sole applicant and to receive payments on his behalf.

[Place] Rahway, New Jersey

[Date] February 26, 2001

[Signature of Applicant]  
**MERCK & CO., INC.**

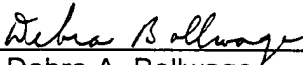
Donna L. Pollock  
**Donna L. Pollock**  
**Administrator, Patents**



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[Signature of Applicant]  
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